

## Contents

(Abstracted/indexed in: *Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS*)

### VOLUME 53 (1991)

Effect of anions on the sorption of uranyl ions on hydrous oxides: Application of the surface hydrolysis model B. Venkataramani and A.R. Gupta (Bombay, India).....	1
The effect of cationic electrolytes on the electrophoretic properties of bacterial cells Y.-I. Chang and C.-Y. Hsieh (Taichung, Taiwan) .....	21
Adsorption of ethyl xanthate on freshly exposed galena surfaces A.N. Buckley (North Ryde, Australia) and R. Woods (Port Melbourne, Australia).....	33
Relationship between foam stability and surface elasticity forces: fatty acid solutions K. Malysa (Cracow, Poland), R. Miller and K. Lunkenheimer (Berlin-Adlershof, G.D.R.).....	47
A comparative study of the adsorption of linear alkyl sulphates and alkylbenzene sulphonates on river sediments J.R. Marchesi, W.A. House (Wareham, United Kingdom), G.F. White, N.J. Russell (Cardiff, United Kingdom) and I.S. Farr (Wareham, United Kingdom) .....	63
Study of the interaction of titanium dioxide with cellulose fibers in an aqueous medium B. Siffert and J.-M. Metzger (Mulhouse, France) .....	79
Surface acidity/basicity of road stone aggregates by adsorption from non-aqueous solutions H. Ardebrant and R.J. Pugh (Stockholm, Sweden) .....	101
Lipid transport to air/water interfaces E.C. Johannsen, J.B. Chung, C.H. Chang and E.I. Franses (West Lafayette, IN, U.S.A.) .....	117
Monolayers and bilayers of lipids E. Margheri, A. Niccolai, G. Gabrielli and E. Ferroni (Firenze, Italy) .....	135
The critical condition for transition from steady wetting to film entrainment R.V. Sedev and J.G. Petrov (Sofia, Bulgaria) .....	147
The effect of tetraalkylammonium ions on the stability of dilute o/w emulsions M. Jansson, L. Eriksson and P. Skagerlind (Stockholm, Sweden).....	157
Analytical control of the preparation and the chemical grafting of Si/SiO <sub>2</sub> heterostructures. Application to the fabrication of silicon microsensors Y. Duvault-Herrera, N. Jaffrezic-Renault (Ecuy, France), D. Morel, J. Serpinet (Villeurbanne, France), J.-L. Duvault and G. Hollinger (Ecuy, France) .....	169
Adsorption and reformation of a series of cationic polyacrylamides on charged surfaces M. Einarson (Seattle, WA, U.S.A.), R. Aksberg, L. Ödberg (Stockholm, Sweden) and J.C. Berg (Seattle, WA, U.S.A.) .....	183
<i>Special Issue: Colloids in Environmental and Materials Technologies. A Collection of Papers Presented at the Symposium on Colloids in Environmental and Materials Technologies held during the 62nd ACS Colloid and Surface Science Symposium at University Park, PA, U.S.A., 19-22 June 1988</i>	
<i>Preface</i> .....	195

## Contents

(Abstracted/indexed in: *Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS*)

### VOLUME 53 (1991)

Effect of anions on the sorption of uranyl ions on hydrous oxides: Application of the surface hydrolysis model B. Venkataramani and A.R. Gupta (Bombay, India).....	1
The effect of cationic electrolytes on the electrophoretic properties of bacterial cells Y.-I. Chang and C.-Y. Hsieh (Taichung, Taiwan) .....	21
Adsorption of ethyl xanthate on freshly exposed galena surfaces A.N. Buckley (North Ryde, Australia) and R. Woods (Port Melbourne, Australia).....	33
Relationship between foam stability and surface elasticity forces: fatty acid solutions K. Malysa (Cracow, Poland), R. Miller and K. Lunkenheimer (Berlin-Adlershof, G.D.R.).....	47
A comparative study of the adsorption of linear alkyl sulphates and alkylbenzene sulphonates on river sediments J.R. Marchesi, W.A. House (Wareham, United Kingdom), G.F. White, N.J. Russell (Cardiff, United Kingdom) and I.S. Farr (Wareham, United Kingdom) .....	63
Study of the interaction of titanium dioxide with cellulose fibers in an aqueous medium B. Siffert and J.-M. Metzger (Mulhouse, France) .....	79
Surface acidity/basicity of road stone aggregates by adsorption from non-aqueous solutions H. Ardebrant and R.J. Pugh (Stockholm, Sweden) .....	101
Lipid transport to air/water interfaces E.C. Johannsen, J.B. Chung, C.H. Chang and E.I. Franses (West Lafayette, IN, U.S.A.) .....	117
Monolayers and bilayers of lipids E. Margheri, A. Niccolai, G. Gabrielli and E. Ferroni (Firenze, Italy) .....	135
The critical condition for transition from steady wetting to film entrainment R.V. Sedev and J.G. Petrov (Sofia, Bulgaria) .....	147
The effect of tetraalkylammonium ions on the stability of dilute o/w emulsions M. Jansson, L. Eriksson and P. Skagerlind (Stockholm, Sweden).....	157
Analytical control of the preparation and the chemical grafting of Si/SiO <sub>2</sub> heterostructures. Application to the fabrication of silicon microsensors Y. Duvault-Herrera, N. Jaffrezic-Renault (Ecuy, France), D. Morel, J. Serpinet (Villeurbanne, France), J.-L. Duvault and G. Hollinger (Ecuy, France) .....	169
Adsorption and reformation of a series of cationic polyacrylamides on charged surfaces M. Einarson (Seattle, WA, U.S.A.), R. Aksberg, L. Ödberg (Stockholm, Sweden) and J.C. Berg (Seattle, WA, U.S.A.) .....	183
<i>Special Issue: Colloids in Environmental and Materials Technologies. A Collection of Papers Presented at the Symposium on Colloids in Environmental and Materials Technologies held during the 62nd ACS Colloid and Surface Science Symposium at University Park, PA, U.S.A., 19-22 June 1988</i>	
<i>Preface</i> .....	195

The growth of sparingly soluble salts on polymeric substrates E. Dalas, J. Kallitsis and P.G. Koutsoukos (Patras, Greece) .....	197
The effects of dicarboxylic acids on the crystal growth of $\alpha$ -FeOOH in aqueous media T.F. Barton (Blacksburg, VA, U.S.A.), T. Price, K. Becker (Pulaski, VA, U.S.A.) and J.G. Dillard (Blacksburg, VA, U.S.A.) .....	209
The sol-gel preparation of porous catalyst spheres C.J.G. van der Grift, A. Mulder and J.W. Geus (Utrecht, The Netherlands) .....	223
The precipitation of calcium carbonate in aqueous solutions A.G. Xyla, E.K. Giannimparas and P.G. Koutsoukos (Patras, Greece) .....	241
Some chemical reactions at the HgS(s)-water interface as affected by photoirradiation Y.H. Hsieh, S. Tokunaga and C.P. Huang (Newark, DE, U.S.A.) .....	257
Photooxidative dissolution of CdS(s). Part I. Important factors and mechanistic aspects Y.H. Hsieh and C.P. Huang (Newark, DE, U.S.A.) .....	275
Titration calorimetry of aqueous alumina suspensions. Part I. Results and comparison with similar studies M.L. Machesky and P.F. Jacobs (University Park, PA, U.S.A.) .....	297
Titration calorimetry of aqueous alumina suspensions. Part II. Discussion of enthalpy changes with pH and ionic strength M.L. Machesky and P.F. Jacobs (University Park, PA, U.S.A.) .....	315
Adsorption of polystyrene onto noble metals from theta solvents F.M. Fowkes, M.J. Kulp, J. Horothai (Bethlehem, PA, U.S.A.) and W.R. Even (Livermore, CA, U.S.A.) .....	329
Solubilization and metal complexation in a reversed micellar hydroxyoxime-sulfonic acid liquid-liquid extraction system K. Osseo-Asare and Y. Zheng (University Park, PA, U.S.A.) .....	339
Characterization of styrene polymerization in microemulsions by Raman spectroscopy L. Feng and K.Y.S. Ng (Detroit, MI, U.S.A.) .....	349
Induced flocculation in sterically stabilized ceramic powder dispersions A.V. Kerkar and D.L. Feke (Cleveland, OH, U.S.A.) .....	363
Interactions between $\text{Al}_2\text{O}_3$ and $\text{ZrO}_2$ powder in a concentrated suspension E.M. DeLiso (Piscataway, NJ, U.S.A.), W. van Rijswijk (IJmuiden, The Netherlands) and W.R. Cannon (Piscataway, NJ, U.S.A.) .....	383
Processing effects on the flow orientation properties of a magnetic particle suspension T.E. Karis and M.S. Jhon (San Jose, CA, U.S.A.) .....	393
<i>Correction</i> .....	411
<i>Author Index</i> .....	415
<i>Subject Index</i> .....	416
<i>Contents (Vol. 53)</i> .....	418